OPTIONAL FORM NO. 10
GSA GEN. REG. NO. 27

UNITED STATES GOVERNMENT

Memorandum

TO : The Files: Contract No. 3786-3120-5

EP 66-112
DATE: 26 May 1966

FROM : Mr. [redacted] 25X1A9a

SUBJECT: Inspection Report No. 8 - AC-3 Antenna Coupler with [redacted] 25X1A5a1
Chicago, Illinois

1. Project Description:

The AC-3 is an HF antenna coupler which provides an impedance range of 35 to 1200 ohms resistance and 0 to ± J1200 ohms reactance and a transmission line of 50±J 0 ohms impedance. The AC-3 is manually operated and provides the impedance match over the 3 to 30 Mc/s range with a VSWR of less than 2:1 while handling 400 watts of continuous RF power. The AC-3 can measure and monitor the forward and reflected power (and hence the VSWR) in the transmission line, and contains a protective circuit which deenergizes the transmitter when a preset level of reflected power is exceeded due to mistuning or malfunction. An internal 50 ohm dummy load (over 3 to 30 Mc/s) is included to permit matching of the transmitter. Primary power to operate the AC-3 is 120/240 (±10%), 50/60 cps, AC mains.

2. Contractual Information:

a. Initial Cost: $112,200.00 Increase in Scope: 1) $18,500.00
2) $75,449.00
b. Request for Procurement Action: 1 March 1965
c. Initiation Date: 29 March 1965
d. Completion Date: Two preproduction AC-3's - 15 June 1966; ninety-eight AC-3's - 90 days after approval of preprods.
e. Deliverable Items: One hundred AC-3's w/spares and accessories, updated engineering drawings

3. Date of Meeting: 13 May 1966

4. Place of Meeting: Chicago, Illinois

5. Persons Attending:

SECRET

EP 66-112

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Chicago, Illinois

5. Persons Attending:

Agency	Non-Agency
25X1A9a Mr. [redacted]	Mr. [redacted] 25X1A5a1

6. Contractor's Performance:

a. On schedule and expected to remain so: Yes
b. Within obligated funds and expected to remain so: Yes
c. Satisfactory technical progress: Yes

7. Project Status:

The first of the two preproduction AC-3's is being assembled. The unit is approximately 40% complete. Several parts, primarily gears, are still due in from various suppliers. The estimated delivery to [redacted] 25X1A5a1 on these is 31 May. (On this basis [redacted] estimates delivery of the two preprod's on or before 15 June.) 25X1A6a

A large portion of this visit was used to brief [redacted] on RS-509 25X1A5a1 type packaging requirements. The present source, [redacted] 25X1A5a1 25X1A5a1 [redacted] has performed rather poorly until very recently. While the RS/L-509, delivered several weeks ago, exhibits excellent workmanship and satisfactory performance, the cost has proven to be excessive.

25X1A5a1 [redacted] was requested to submit a cost estimate based on RS/L-509 photographs, a representative RS/L-509 piece part, and an old RS-509 25X1A5a1 system package. [redacted] has the closed area facility to do the work and was confident that the work could be accomplished at a reasonable price. However, our idea of reasonableness may be different from theirs.

[redacted] 25X1A9a

Distribution:
R&D Subject File
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25X1A9a OC-E/R&D-EP/[redacted]/bjp SECRET 2 (26 May 1966)